

Volumes of Cones & Spheres

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①

The volume of a sphere is 296 cm^3 . Calculate the radius of the sphere, giving your answer to an appropriate degree of accuracy.

[2]

②

The volume of a hemisphere is $7\pi \text{ cm}^3$. Calculate the radius of the hemisphere.

[4]

Turn over.

③

A hemisphere is attached to a cone to make a solid as shown below.

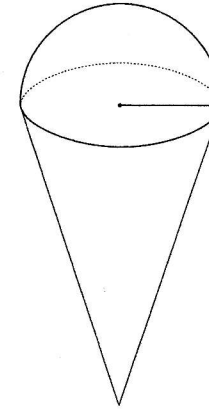


Diagram not drawn to scale.

The hemisphere has radius 1.8 cm . The cone has base radius 1.8 cm and height 5.1 cm . Calculate the volume of the solid.

[4]

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